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Office of Enforcement, Compliance
and Environmental Justice (UFO)

Environmental Alternatives, Inc.
EXPERIENCE • ACCREDITATION • INTEGRITY

July 1, 2015

UIC Class V File				
UIC PERMIT & ID #: CO50927-04914				
Invent. Form	Inspect. Rep.	Monit. Reports	EPA Corres.	Operator Corres.
		X		

G. Clark Davenport
U.S. EPA Region 8
8ENF-UFO, Class V
Underground Injection Control
1595 Wynkoop Street
Denver, CO 80202-1129

RE: UIC Final Permit # CO50927-04914
Kwik Stop System #1 - Septic System Receiving Carwash Waste Fluids
Kwik Stop Carwash
916 Highway 115
Penrose, CO 81240

Dear Mr. Davenport,

On June 15 and 23, 2015 at 8:37 and 8:10, respectively, using a sterile container, I, Angela Bellantoni, extracted a grab sample from the second tank (Tank #2) of the septic tank system treating water discharged from the above referenced carwash. The sample was poured into two containers provided by ALS Laboratory Group and shipped under ice to the analytical laboratory at 225 Commerce Drive, F Ft. Collins, CO 80524. I relinquished the sample cooler to Master Shippers, 306 Main Street, Cañon City, CO at 2:45 pm on June 15 and 2:15 pm on June 23.

ALS Laboratory analyzed for volatile organic compounds on June 30, 2015, total recoverable metals and mercury on June 23, 2015. The analytical methods and quality control used by laboratory personnel are included in the enclosed analytical results report.

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Angela M. Bellantoni Ph.D.

Enclosure: ALS Laboratory analytical report

Cc: Alan Drake, Kwik Stop Food Stores

Environmental Alternatives Inc.
1107 Main Street, Cañon City, CO 81212
www.envalternatives.com • e-mail: eai@bresnan.net
Phone: 719-275-8951 • Fax: 719-275-1715

Kwik Stop Store Penrose Colorado
UIC Final Permit # CO50927-04914

Analytical Results Summary
Report generated 7/1/2015

	Permit limit (mg/L)	Result (mg/L)	Result (mg/L)
GC/MS Volatiles		2/19/2015	6/30/2015
Analyte*			
Acetone	7.000	0.01	0.017
Chloroform	0.080	0.0052	0.0069
Bromodichloromethane	0.080	0.0012	ND
4-methyl-2-pentanone		0.0049	0.017
Toluene	1.000	0.00047	0.002
Tetrachloroethene	0.005	0.00054	ND
Dibromochloromethane	0.080	0.00037	ND
Xylenes	10.000	0.00031	0.00034
1,2,4-trimethylbenzene		0.00062	ND
Naphthalene	0.100	0.0015	ND

Total Recoverable Metals

Analyte			6/23/2015
Antimony	0.006	0.0019	0.0021
Arsenic	0.010	0.0024	0.0034
Barium	2.000	0.081	0.12
Beryllium	0.004	ND	ND
Boron	1.400	0.1	0.87
Cadmium	0.005	0.00061	0.0011
Chromium (total)	0.100	ND	ND
Copper	1.300	0.016	0.048
Iron	5.000	2.1	3.7
Lead	0.015	0.0036	0.013
Manganese	0.800	0.18	0.38
Mercury	0.002	ND	ND
Molybdenum	0.040	0.0052	0.0048
Nickel	0.100	0.0088	0.01
Selenium	0.050	0.002	ND
Silver	0.100	ND	ND
Strontium	4.000	0.32	0.27
Thallium	0.002	ND	ND
Zinc	2.000	0.079	0.16

*Only VOCs present in sample are listed. The list does not reflect all target VOCs.

Environmental Alternatives Inc.
1107 Main Street, Cañon City, CO 81212
www.envalternatives.com • e-mail: eai@bresnan.net
Phone: 719-275-8951 • Fax: 719-275-1715

Tuesday, June 23, 2015

Angela Bellantoni
Environmental Alternatives, Inc.
1107 Main Street
Canon City, CO 81212

Re: ALS Workorder: 1506284
Project Name: Kwikstop
Project Number: KSS1506

Dear Ms. Bellantoni:

One water sample was received from Environmental Alternatives, Inc., on 6/16/2015. The sample was scheduled for the following analysis:

Metals

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

ALS Environmental

1506284

Metals:

The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by Trace ICP followed method 200.7 and the current revision of SOP 807. Mercury analysis by CVAA followed method 245.1 and the current revision of SOP 812.

The preparation (method) blank associated with each digestion batch was below the reporting limit for the requested analytes, with the exception of barium and strontium. The associated samples contained more than ten times the concentration of barium and strontium detected in the method blank, so no further action was taken.

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1506284
Client Name: Environmental Alternatives, Inc.
Client Project Name: Kwikstop
Client Project Number: KSS1506
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Tank #2	1506284-1		WATER	15-Jun-15	8:37

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.
Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER # 1506284

PAGE of

DISPOSAL BY LAB or RETURN

PROJECT NAME	Kwik Stop	TURNAROUND TIME	<5 days
PROJECT No.	KSS	SITE ID	Penrose
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	EAI	BILL TO COMPANY	
SEND REPORT TO	Angela Bellanton	INVOICE ATTN TO	
ADDRESS	1109 Main St	ADDRESS	
CITY / STATE / ZIP	Canon City, CO 81212	CITY / STATE / ZIP	
PHONE	719-275-8951	PHONE	
FAX	719-275-1715	FAX	
E-MAIL	angela@envalternatives.com	E-MAIL	

SAMPLER: A Bellanton

PARAMETER/METHOD REQUEST FOR ANALYSIS

A	VOCs
B	Metals – total recoverable
C	
D	
E	
F	
G	
H	
I	
J	

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
(1)	Tank #2	W	6/15/15	8:37A	4	✓	✓	✓	✓									

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

NOTES	REPORT LEVEL / QC REQUIRED
10.8°	Summary (Standard QC)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw

5 of 12

PRESERVATION KEY: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

Form 202r9

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Angela M Bellanton	6/15/15	14:45
RECEIVED BY		Erin Peterson	10/16/15	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: EAI Workorder No: 1506284

Project Manager: ARW Initials: ECP Date: 6/16/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	NONE	(YES)	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	(YES)	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	(YES)	NO
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount of sediment: X dusting ____ moderate ____ heavy all bottles	N/A	(YES)	NO
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 (#4)	RAD ONLY	YES	(NO)

Cooler #:	1							
Temperature (°C):	10.8° (*)							
No. of custody seals on cooler:	1							
DOT Survey/ Acceptance Information: External µR/hr reading:	10							
Background µR/hr reading:	12							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (YES) / NO / NA (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

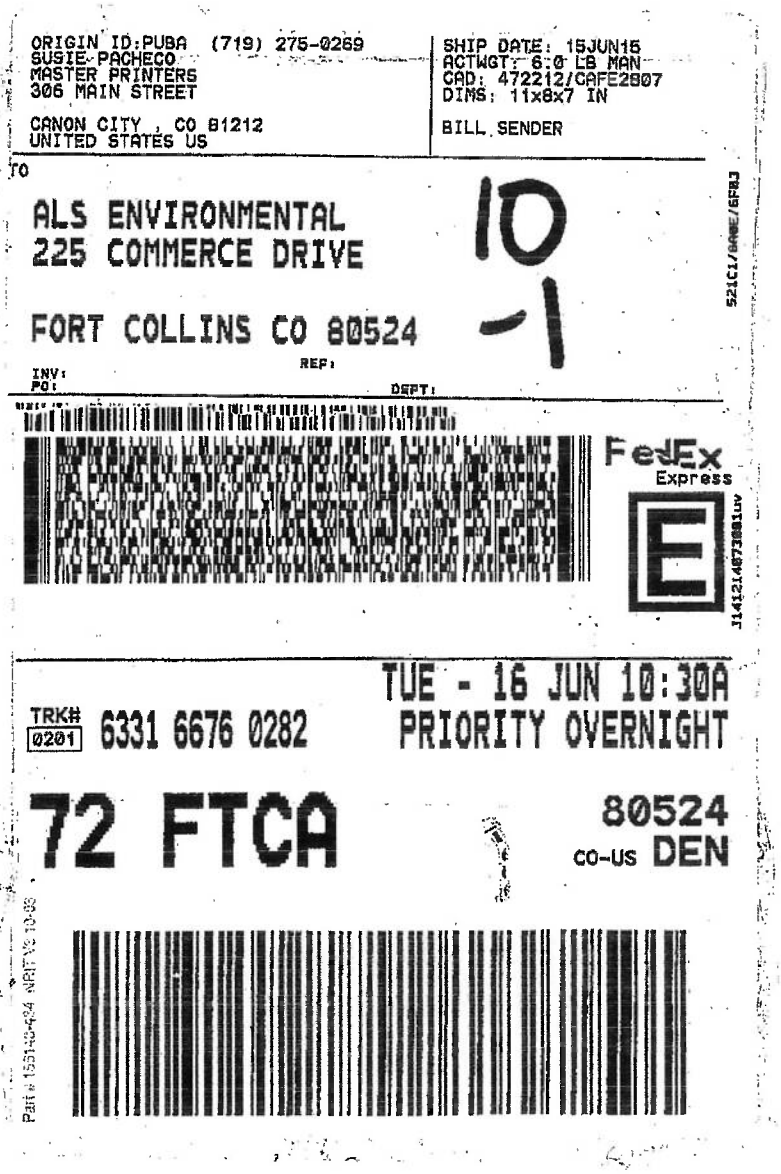
(*) Proceed with analysis per Angela.
aw 6/17/15

If applicable, was the client contacted? (YES) / NO / NA Contact: Angela Bellantonio Date/Time: 6/16/15 email

Project Manager Signature / Date: 6/16/15

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

1506284.


ORIGIN ID:PUBA (719) 275-0269
SUSIE PACHECO
MASTER PRINTERS
306 MAIN STREET
CANON CITY , CO 81212
UNITED STATES US
SHIP DATE: 15JUN15
ACTWGT: 6.0 LB MAN
CAD: 472212/CAFE2807
DIMS: 11x8x7 IN
BILL SENDER
TO
ALS ENVIRONMENTAL
225 COMMERCE DRIVE
FORT COLLINS CO 80524
10
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INV:
PO:
REF:
DEPT:
FedEx
Express
TUE - 16 JUN 10:30A
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PRIORITY OVERNIGHT
72 FTCA
80524
CO-US DEN

Client: Environmental Alternatives, Inc. **Date:** *23-Jun-15*
Project: KSS1506 Kwikstop **Work Order:** 1506284
Sample ID: Tank #2 **Lab ID:** 1506284-1
Legal Location: **Matrix:** WATER
Collection Date: 6/15/2015 08:37 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury			**EPA245.1**		Prep Date: **6/17/2015**	PrepBy: **NAQ**
MERCURY	ND		0.0002	MG/L	1	6/18/2015 13:12
Total Recoverable Metals by 200.8			**EPA200.8**		Prep Date: **6/17/2015**	PrepBy: **CDR**
SILVER	ND		0.1	UG/L	10	6/22/2015 16:37
ARSENIC	**3.4**		**2**	**UG/L**	10	6/22/2015 16:37
BORON	**87**		**50**	**UG/L**	10	6/22/2015 16:37
BARIUM	**120**		**1**	**UG/L**	10	6/22/2015 16:37
BERYLLIUM	ND		0.5	UG/L	10	6/22/2015 16:37
CADMIUM	**1.1**		**0.3**	**UG/L**	10	6/22/2015 16:37
CHROMIUM	ND		10	UG/L	10	6/22/2015 16:37
COPPER	**48**		**10**	**UG/L**	10	6/22/2015 16:37
IRON	**3700**		**100**	**UG/L**	10	6/22/2015 16:37
MANGANESE	**380**		**2**	**UG/L**	10	6/22/2015 16:37
MOLYBDENUM	**4.8**		**1**	**UG/L**	10	6/22/2015 16:37
NICKEL	**10**		**5**	**UG/L**	10	6/22/2015 16:37
LEAD	**13**		**0.5**	**UG/L**	10	6/22/2015 16:37
ANTIMONY	**2.1**		**0.3**	**UG/L**	10	6/22/2015 16:37
SELENIUM	ND		1	UG/L	10	6/22/2015 16:37
STRONTIUM	**270**		**1**	**UG/L**	10	6/22/2015 16:37
THALLIUM	ND		0.2	UG/L	10	6/22/2015 16:37
ZINC	**160**		**20**	**UG/L**	10	6/22/2015 16:37

Client:	Environmental Alternatives, Inc.	**Date:**	*23-Jun-15*
Project:	KSS1506 Kwikstop	**Work Order:**	1506284
Sample ID:	Tank #2	**Lab ID:**	1506284-1
Legal Location:		**Matrix:**	WATER
Collection Date:	6/15/2015 08:37	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

QC BATCH REPORT

Batch ID: **HG150617-3-1** Instrument ID **CETAC7500** Method: **EPA245.1**

LCS Sample ID: **HG150617-3** Units: **MG/L** Analysis Date: **6/18/2015 12:55**

Client ID: Run ID: **HG150618-2A1** Prep Date: **6/17/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
MERCURY	0.00105	0.0002	0.001		105	85-115				20	

MB Sample ID: **HG150617-3** Units: **MG/L** Analysis Date: **6/18/2015 12:53**

Client ID: Run ID: **HG150618-2A1** Prep Date: **6/17/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
MERCURY	ND	0.0002									

The following samples were analyzed in this batch: 1506284-1

Client: Environmental Alternatives, Inc.
Work Order: 1506284
Project: KSS1506 Kwikstop

QC BATCH REPORT

Batch ID: **IP150617-4-1** Instrument ID **ICPMS2** Method: **EPA200.8**

LCS Sample ID: **IP150617-4** Units: **UG/L** Analysis Date: **6/22/2015 16:33**

Client ID: Run ID: **IM150622-10A4** Prep Date: **6/17/2015** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
ANTIMONY	31.2	0.3	30		104	85-115				20	
ARSENIC	105	2	100		105	85-115				20	
BARIUM	110	1	100		110	85-115				20	
BORON	1080	50	1000		108	85-115				20	
CADMIUM	33.8	0.3	30		113	85-115				20	
CHROMIUM	512	10	500		102	85-115				20	
COPPER	1070	10	1000		107	85-115				20	
IRON	5380	100	5000		108	85-115				20	
LEAD	50.6	0.5	50		101	85-115				20	
MANGANESE	105	2	100		105	85-115				20	
MOLYBDENUM	102	1	100		102	85-115				20	
NICKEL	522	5	500		104	85-115				20	
SELENIUM	109	1	100		109	85-115				20	
SILVER	11	0.1	10		110	85-115				20	
STRONTIUM	104	1	100		104	85-115				20	
THALLIUM	2.22	0.2	2		111	85-115				20	
BERYLLIUM	49.9	0.5	50		100	85-115				20	
ZINC	2130	20	2000		107	85-115				20	

Client: Environmental Alternatives, Inc.
Work Order: 1506284
Project: KSS1506 Kwikstop

QC BATCH REPORT

Batch ID: **IP150617-4-1** Instrument ID **ICPMS2** Method: **EPA200.8**

MB Sample ID: **IP150617-4** Units: **UG/L** Analysis Date: **6/22/2015 16:30**

Client ID: Run ID: **IM150622-10A4** Prep Date: **6/17/2015** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
ANTIMONY	ND	0.3									
ARSENIC	ND	2									
BARIUM	1.4	1									
BORON	ND	50									
CADMIUM	ND	0.3									
CHROMIUM	ND	10									
COPPER	ND	10									
IRON	ND	100									
LEAD	ND	0.5									
MANGANESE	ND	2									
MOLYBDENUM	ND	1									
NICKEL	ND	5									
SELENIUM	ND	1									
SILVER	ND	0.1									
STRONTIUM	2.8	1									
THALLIUM	ND	0.2									
BERYLLIUM	ND	0.5									
ZINC	ND	20									

The following samples were analyzed in this batch: 1506284-1

Tuesday, June 30, 2015

Angela Bellantoni
Environmental Alternatives, Inc.
1107 Main Street
Canon City, CO 81212

Re: ALS Workorder: 1506452
Project Name: Kwikstop
Project Number: KSS1506

Dear Ms. Bellantoni:

One water sample was received from Environmental Alternatives, Inc., on 6/24/2015. The sample was scheduled for the following analysis:

GC/MS Volatiles

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental

1506452

GC/MS Volatiles:
The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

- All criteria for initial calibration verification were met with the exception of iodomethane which was low. This compound was not detected in the associated sample.
- All compounds in the daily (continuing) calibration verifications were within 20%D with the exceptions of vinyl acetate and naphthalene which were high. These compounds were not detected in the associated sample.
- The method blank had methylene chloride detected below the reporting limit. This compound was detected in the associated sample, so the data were flagged.

All remaining acceptance criteria were met.

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1506452
Client Name: Environmental Alternatives, Inc.
Client Project Name: Kwikstop
Client Project Number: KSS1506
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Tank #2	1506452-1		WATER	23-Jun-15	8:15

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.

Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER # 1506452

TURNAROUND TIME	2 weeks	SAMPLER	A. Bellantoni	PAGE	1 of 1
SITE ID	Penrose			DISPOSAL	BY LAB or RETURN
EDD FORMAT				PARAMETER/METHOD REQUEST FOR ANALYSIS	
PURCHASE ORDER				A	VOCs
BILL TO COMPANY				B	
INVOICE ATTN TO				C	
ADDRESS				D	
CITY / STATE / ZIP				E	
PHONE				F	
FAX				G	
E-MAIL				H	
				I	
				J	

PROJECT NAME	Kwik Stop
PROJECT No.	KSS1506
COMPANY NAME	EAI
SEND REPORT TO	Angela Bellantoni
ADDRESS	116 E Main St
CITY / STATE / ZIP	Canon City, CO 81212
PHONE	719-275-8951
FAX	719-275-1715
E-MAIL	angela@environalternatives.com

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
	Tank #2	W	6/23/15	5:15P	3	✓	✓	✓										

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

NOTES	REPORT LEVEL / QC REQUIRED
5 of 13	Summary (Standard QC)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw

PRESERVATION KEY: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

Form 202r9

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Angela M Bellantoni	Angela M Bellantoni	6/23/15	2:15P
RECEIVED BY	Erin Peterson	Erin Peterson	6/24/15	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: EAI Workorder No: 1506452

Project Manager: ARW Initials: ECP Date: 6/24/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
* 3. Are Custody seals on sample containers intact?	NONE	(YES)	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	(YES)	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	(N/A)	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: X < green pea ___ > green pea	N/A	YES	(NO)
15. Do any water samples contain sediment? Amount of sediment: X dusting ___ moderate ___ heavy all bottles	N/A	(YES)	NO
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 (#4)	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	2.2							
No. of custody seals on cooler: *	1							
DOT Survey/ Acceptance Information — External µR/hr reading:	11							
Background µR/hr reading:	12							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (YES) / NO / NA (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

* 3) Samples were packed in a cooler which was shipped inside a box. No custody seals were on the box but the cooler had 1 custody seal.

14) 1-1, 1-2

If applicable, was the client contacted? YES / NO (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: 6/24/15

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002


From
Mondo Vino
WSJwine
3601 W 32ND AVE
DENVER CO 80211 US
866-975-9463
SHIP DATE: 3APR2015
ACTUAL WGT: 37.33 LBS
System#: 100397/FXRS0767
ACCOUNT# 1881171
TO:
MR. ROBERT HAMBY
332 MAIN ST
1506452
CANON CITY CO 81212 (US)
PHONE: 7192753455
FedEx
Ground
G
ORIGIN ID:PUBA (719) 275-0269
SUSIE PACHECO
MASTER PRINTERS
306 MAIN STREET
CANON CITY, CO 81212
UNITED STATES US
SHIP DATE: 23JUN15
ACTWGT: 16.0 LB MAN
CAD: 472212/CAFE2807
DIMS: 17x15x12 IN
BILL SENDER
TO
ALS ENVIRONMENTAL
225 COMMERCE DRIVE
FORT COLLINS CO 80524
INV:
PO:
REF:
DEPT:
FedEx
Express
E
TRK#
0201
6331 6676 0444
WED - 24 JUN 10:30A
PRIORITY OVERNIGHT
72 FTCA 2.2°
80524
CO-US DEN
C03
VVT

Client: Environmental Alternatives, Inc. **Date:** *30-Jun-15*
Project: KSS1506 Kwikstop **Work Order:** 1506452
Sample ID: Tank #2 **Lab ID:** 1506452-1
Legal Location: **Matrix:** WATER
Collection Date: 6/23/2015 08:15 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**		Prep Date: **6/24/2015**	PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		1	UG/L	1	6/24/2015 14:46
CHLOROMETHANE	ND		1	UG/L	1	6/24/2015 14:46
VINYL CHLORIDE	ND		1	UG/L	1	6/24/2015 14:46
BROMOMETHANE	ND		1	UG/L	1	6/24/2015 14:46
CHLOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
TRICHLOROFLUOROMETHANE	ND		1	UG/L	1	6/24/2015 14:46
1,1-DICHLOROETHENE	ND		1	UG/L	1	6/24/2015 14:46
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
ACETONE	**17**		**10**	**UG/L**	1	6/24/2015 14:46
IODOMETHANE	ND		1	UG/L	1	6/24/2015 14:46
CARBON DISULFIDE	**0.6**	J	**1**	**UG/L**	1	6/24/2015 14:46
METHYLENE CHLORIDE	**0.51**	JB	**1**	**UG/L**	1	6/24/2015 14:46
TRANS-1,2-DICHLOROETHENE	ND		1	UG/L	1	6/24/2015 14:46
METHYL TERTIARY BUTYL ETHER	ND		1	UG/L	1	6/24/2015 14:46
1,1-DICHLOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
VINYL ACETATE	ND		2	UG/L	1	6/24/2015 14:46
CIS-1,2-DICHLOROETHENE	ND		1	UG/L	1	6/24/2015 14:46
2-BUTANONE	ND		10	UG/L	1	6/24/2015 14:46
BROMOCHLOROMETHANE	ND		1	UG/L	1	6/24/2015 14:46
CHLOROFORM	**6.9**		**1**	**UG/L**	1	6/24/2015 14:46
1,1,1-TRICHLOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
2,2-DICHLOROPROPANE	ND		1	UG/L	1	6/24/2015 14:46
CARBON TETRACHLORIDE	ND		1	UG/L	1	6/24/2015 14:46
1,1-DICHLOROPROPENE	ND		1	UG/L	1	6/24/2015 14:46
1,2-DICHLOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
BENZENE	ND		1	UG/L	1	6/24/2015 14:46
TRICHLOROETHENE	ND		1	UG/L	1	6/24/2015 14:46
1,2-DICHLOROPROPANE	ND		1	UG/L	1	6/24/2015 14:46
DIBROMOMETHANE	ND		1	UG/L	1	6/24/2015 14:46
BROMODICHLOROMETHANE	ND		1	UG/L	1	6/24/2015 14:46
CIS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	6/24/2015 14:46
4-METHYL-2-PENTANONE	**17**		**10**	**UG/L**	1	6/24/2015 14:46
TOLUENE	**2**		**1**	**UG/L**	1	6/24/2015 14:46
TRANS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	6/24/2015 14:46
1,1,2-TRICHLOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
2-HEXANONE	ND		10	UG/L	1	6/24/2015 14:46
TETRACHLOROETHENE	ND		1	UG/L	1	6/24/2015 14:46
1,3-DICHLOROPROPANE	ND		1	UG/L	1	6/24/2015 14:46
DIBROMOCHLOROMETHANE	ND		1	UG/L	1	6/24/2015 14:46
1,2-DIBROMOETHANE	ND		1	UG/L	1	6/24/2015 14:46
1-CHLOROHEXANE	ND		1	UG/L	1	6/24/2015 14:46
CHLOROBENZENE	ND		1	UG/L	1	6/24/2015 14:46
1,1,1,2-TETRACHLOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
ETHYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
M+P-XYLENE	**0.34**	J	**1**	**UG/L**	1	6/24/2015 14:46
O-XYLENE	ND		1	UG/L	1	6/24/2015 14:46

Client: Environmental Alternatives, Inc. **Date:** *30-Jun-15*
Project: KSS1506 Kwikstop **Work Order:** 1506452
Sample ID: Tank #2 **Lab ID:** 1506452-1
Legal Location: **Matrix:** WATER
Collection Date: 6/23/2015 08:15 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
STYRENE	ND		1	UG/L	1	6/24/2015 14:46
BROMOFORM	ND		1	UG/L	1	6/24/2015 14:46
ISOPROPYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
1,2,3-TRICHLOROPROPANE	ND		1	UG/L	1	6/24/2015 14:46
1,1,2,2-TETRACHLOROETHANE	ND		1	UG/L	1	6/24/2015 14:46
BROMOBENZENE	ND		1	UG/L	1	6/24/2015 14:46
N-PROPYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
2-CHLOROTOLUENE	ND		1	UG/L	1	6/24/2015 14:46
1,3,5-TRIMETHYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
4-CHLOROTOLUENE	ND		1	UG/L	1	6/24/2015 14:46
TERT-BUTYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
1,2,4-TRIMETHYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
SEC-BUTYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
1,3-DICHLOROBENZENE	ND		1	UG/L	1	6/24/2015 14:46
P-ISOPROPYLTOLUENE	ND		1	UG/L	1	6/24/2015 14:46
1,4-DICHLOROBENZENE	ND		1	UG/L	1	6/24/2015 14:46
N-BUTYLBENZENE	ND		1	UG/L	1	6/24/2015 14:46
1,2-DICHLOROBENZENE	ND		1	UG/L	1	6/24/2015 14:46
1,2-DIBROMO-3-CHLOROPROPANE	ND		2	UG/L	1	6/24/2015 14:46
1,2,4-TRICHLOROBENZENE	ND		1	UG/L	1	6/24/2015 14:46
HEXACHLOROBUTADIENE	ND		1	UG/L	1	6/24/2015 14:46
NAPHTHALENE	ND		1	UG/L	1	6/24/2015 14:46
1,2,3-TRICHLOROBENZENE	ND		1	UG/L	1	6/24/2015 14:46
Surr: DIBROMOFLUOROMETHANE	*103*		*84-118*	*%REC*	1	6/24/2015 14:46
Surr: TOLUENE-D8	*100*		*85-115*	*%REC*	1	6/24/2015 14:46
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	6/24/2015 14:46

Client:	Environmental Alternatives, Inc.	**Date:**	*30-Jun-15*
Project:	KSS1506 Kwikstop	**Work Order:**	1506452
Sample ID:	Tank #2	**Lab ID:**	1506452-1
Legal Location:		**Matrix:**	WATER
Collection Date:	6/23/2015 08:15	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **VL150624-4-1** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL150624-4** Units: **UG/L** Analysis Date: **6/24/2015 11:13**

Client ID: Run ID: **VL150624-4A** Prep Date: **6/24/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1,1-DICHLOROETHENE	9.87	1	10		99	77-119				20	
BENZENE	9.91	1	10		99	83-117				20	
TRICHLOROETHENE	9.78	1	10		98	83-117				20	
TOLUENE	10	1	10		100	82-113				20	
CHLOROBENZENE	10.5	1	10		105	81-113				20	
Surr: DIBROMOFLUOROMETHANE	25.5		25		102	84-118					
Surr: TOLUENE-D8	25.1		25		100	85-115					
Surr: 4-BROMOFLUOROBENZENE	25.3		25		101	85-115					

LCSD Sample ID: **VL150624-4** Units: **UG/L** Analysis Date: **6/24/2015 12:00**

Client ID: Run ID: **VL150624-4A** Prep Date: **6/24/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1,1-DICHLOROETHENE	9.9	1	10		99	77-119		9.87	0	20	
BENZENE	10.1	1	10		101	83-117		9.91	2	20	
TRICHLOROETHENE	9.65	1	10		97	83-117		9.78	1	20	
TOLUENE	9.61	1	10		96	82-113		10	4	20	
CHLOROBENZENE	9.92	1	10		99	81-113		10.5	5	20	
Surr: DIBROMOFLUOROMETHANE	26.1		25		104	84-118			2		
Surr: TOLUENE-D8	24.7		25		99	85-115			2		
Surr: 4-BROMOFLUOROBENZENE	24.7		25		99	85-115			2		

Client: Environmental Alternatives, Inc.
Work Order: 1506452
Project: KSS1506 Kwikstop

QC BATCH REPORT

Batch ID: **VL150624-4-1** Instrument ID **HPV1** Method: **SW8260_25**

MB Sample ID: **VL150624-4** Units: **UG/L** Analysis Date: **6/24/2015 14:22**
Client ID: Run ID: **VL150624-4A** Prep Date: **6/24/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	1									
CHLOROMETHANE	ND	1									
VINYL CHLORIDE	ND	1									
BROMOMETHANE	ND	1									
CHLOROETHANE	ND	1									
TRICHLOROFLUOROMETHANE	ND	1									
1,1-DICHLOROETHENE	ND	1									
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND	1									
ACETONE	ND	10									
IODOMETHANE	ND	1									
CARBON DISULFIDE	ND	1									
METHYLENE CHLORIDE	0.84	1									J
TRANS-1,2-DICHLOROETHENE	ND	1									
METHYL TERTIARY BUTYL ETHER	ND	1									
1,1-DICHLOROETHANE	ND	1									
VINYL ACETATE	ND	2									
CIS-1,2-DICHLOROETHENE	ND	1									
2-BUTANONE	ND	10									
BROMOCHLOROMETHANE	ND	1									
CHLOROFORM	ND	1									
1,1,1-TRICHLOROETHANE	ND	1									
2,2-DICHLOROPROPANE	ND	1									
CARBON TETRACHLORIDE	ND	1									
1,1-DICHLOROPROPENE	ND	1									
1,2-DICHLOROETHANE	ND	1									
BENZENE	ND	1									
TRICHLOROETHENE	ND	1									
1,2-DICHLOROPROPANE	ND	1									
DIBROMOMETHANE	ND	1									
BROMODICHLOROMETHANE	ND	1									
CIS-1,3-DICHLOROPROPENE	ND	1									
4-METHYL-2-PENTANONE	ND	10									
TOLUENE	ND	1									
TRANS-1,3-DICHLOROPROPENE	ND	1									
1,1,2-TRICHLOROETHANE	ND	1									
2-HEXANONE	ND	10									
TETRACHLOROETHENE	ND	1									
1,3-DICHLOROPROPANE	ND	1									
DIBROMOCHLOROMETHANE	ND	1									
1,2-DIBROMOETHANE	ND	1									